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MATERIAL SAFETY DATA SHEET

First Print, Inc.

Complies with Federal OSHA Hazard Communication Standard 29CFR 1910 and California and Pennsylvania Right to Know Acts.

SECTION 1 PRODUCT IDENTIFICATION AND USE

Product name: LITHOPAQUE PEN (METAL BARREL)
Manufacturer's name: First Print, Inc.
Manufacturer's address: 109 Cambridge Street, Winchester, MA 01890
Telephone number for information: 1-800-483-5824
Telephone number for emergencies: CHEMTREC 1-800-424-9300 (US)
INTERNATIONAL 1-202-483-7616 (Collect)
DOT Class: *NA (limited quantity exemption 29 CFR 173.150)
UN numbers: NA

SECTION 2: HAZARDOUS INGREDIENTS

INGREDIENT	PERCENT	ACGIH-TLV	OSHA-PEL	CAS NO
METHYL CELLOSOLVE*	48.00	5 PPM	25 PPM	109-86-4
ETHYL ALCOHOL	25.00	1000 PPM	1000 PPM	64-17-5

THIS CHEMICAL IS SUBJECT TO THE REPORTING REQUIRMENTS OF SARA TITLE III, SECTION 313 OF THE EMERGENCY PLANNING AND COMMUNITY RIGHT TO KNOW ACT OF 1986 AND OF 40 CFR 372. THIS PRODUCT IS IN COMPLIANCE WITH THE EPA TSCA INVENTORY.

SECTION 3: PHYSICAL & CHEMICAL CHARACTERISTICS

BOILING POINT: 254 F
MELTING POINT: -121 F
VAPOR DENSITY: 2.8
SPECIFIC GRAVITY: .86
REACTIVITY IN WATER: NONE
SOLUBILITY IN WATER: SLIGHT
AUTO IGNITION: 545 F
VAPOR PRESSURE: 22.5 MM HG
APPEARANCE & ODOR: MOBILE LIQUID
APPEARANCE & ODOR: MILD ODOR
LEL/UEL %: 3.1 13
FLASH POINT: 90 F
METHOD: CLOSED CUP

SECTION 4: FIRE & EXPLOSION DATA

EXTINGUISHING MEDIA: CARBON DIOXIDE
EXTINGUISHING MEDIA: DRY CHEMICAL
EXTINGUISHING MEDIA: ALCOHOL FOAM
EXTINGUISHING MEDIA: UNIVERSAL FOAM
EXTINGUISHING MEDIA: WATERSPRAY
SPECIAL FIRE PROCEDURES: WEAR SELF-CONTAINED BREATHING APPARATUS
SPECIAL FIRE PROCEDURES: WEAR PROTECTIVE CLOTHING AND EQUIPMENT
SPECIAL FIRE PROCEDURES: USE WATERSPRAY TO COOL FIRE-EXPOSED AREA
SPECIAL FIRE PROCEDURES: USE WATERSPRAY TO PROTECT PERSONNEL
UNUSUAL HAZARDS: WEAR FACE SHIELD TO PROTECT FACE AND
UNUSUAL HAZARDS: EYES FROM CONTACT WITH LIQUID OR VAPOR.

SECTION 5: REACTIVITY DATA

STABLE, Y=YES, N=NO : Y

CONDITIONS TO AVOID: HEAT, SPARKS AND OPEN FLAME

INCOMPATIBILITY: IGNITION SOURCES

HAZARDOUS DECOMPOSITION: BURNING WILL PRODUCE CO₂ AND PROBABLY CO

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: NONE

SECTION 6: HEALTH HAZARDS

ACUTE: HEADACHE, NAUSEA, VOMITING

CHRONIC: SKIN AND EYE IRRITANT

CHRONIC: KIDNEY INJURY FROM OVEREXPOSURE

SIGNS & SYMPTOMS OF EXPOSURE: HEADACHE, NAUSEA, VOMITING

SIGNS & SYMPTOMS OF EXPOSURE: DIZZINESS, DROWSINESS, FATIGUE, TREMORS

SIGNS & SYMPTOMS OF EXPOSURE: LOSS OF COORDINATION

SIGNS & SYMPTOMS OF EXPOSURE: LOSS OF APPETITE

MEDICAL CONDITIONS AGGRAVATED: IN LABORATORY INHALATION STUDIES WITH

MEDICAL CONDITIONS AGGRAVATED: ANIMALS, METHYL CELLOSOLVE HAS CAUSED

MEDICAL CONDITIONS AGGRAVATED: BIRTH DEFECTS IN FEMALES & REPRODUCTIVE

MEDICAL CONDITIONS AGGRAVATED: PROBLEMS IN MALES; NO HUMAN RESULTS CITED

IS CHEMICAL LISTED AS CARCINOGEN OR POTENTIAL CARCINOGEN ?

NATIONAL TOXICOLOGY PROGRAM, Y=YES, N=NO: N

IARC MONOGRAPHS, Y=YES, N=NO: N

OSHA, Y=YES, N=NO: N

FIRST AID FOR INHALATION: REMOVE TO FRESH AIR IF OVERCOME BY VAPOR

FIRST AID FOR EYES: FLUSH WITH CLEAN WATER FOR 15 MINUTES

FIRST AID FOR SKIN: WASH WITH SOAP & WATER; CHANGE CLOTHING

FIRST AID FOR INGESTION: GIVE TWO GLASSES OF LUKEWARM WATER

FIRST AID FOR INGESTION: INDUCE VOMITING; CALL DOCTOR

ROUTES OF ENTRY FOR INHALATION: AVOID PROLONGED BREATHING OF VAPORS

ROUTES OF ENTRY FOR EYES: AVOID ALL CONTACT WITH THE EYES

ROUTES OF ENTRY FOR SKIN: AVOID REPEATED OR PROLONGED SKIN CONTACT

ROUTES OF ENTRY FOR INGESTION: DO NOT TAKE INTERNALLY

SECTION 7: SPECIAL PRECAUTIONS & SPILL/LEAK PROCEDURES

HANDLING & STORAGE: KEEP CONTAINER CLOSED WHEN NOT IN USE

HANDLING & STORAGE: USE ONLY WITH ADEQUATE VENTILATION

HANDLING & STORAGE: AVOID PROLONGED BREATHING OF VAPORS

HANDLING & STORAGE: KEEP AWAY FROM HEAT AND FLAME

STEPS IF SPILLED: REMOVE SOURCES OF IGNITION; VENTILATE

STEPS IF SPILLED: CONTAIN & COVER SPILL WITH AN ABSORBENT

STEPS IF SPILLED: COLLECT & DISPOSE IN CHEMICAL WASTE DRUM

STEPS IF SPILLED: DO NOT ALLOW SPILL TO ENTER WATERWAYS

WASTE DISPOSAL: INCINERATE IN CHEMICAL FURNACE

WASTE DISPOSAL: MUST CONFORM TO LOCAL, STATE & FEDERAL REGULATIONS

SECTION 8: SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION: GENERAL ROOM VENTILATION IS SATISFACTORY

VENTILATION: PROVIDE ADEQUATE CROSS AIR CIRCULATION

LOCAL EXHAUST: PREFERABLE

MECHANICAL: ACCEPTABLE

SPECIAL: NIOSH APPROVED RESPIRATOR FOR HIGH VAPOR

PROTECTIVE GLOVES: RUBBER GLOVES

SECTION 8: SPECIAL PROTECTION INFORMATION

EYE PROTECTION: SPLASH GLASSES

SKIN PROTECTION: EYEWASH STATION

WORK/HYGENIC PRACTICES: THIS PRODUCT SHOULD NOT BE USED BY PREGNANT WOMEN.

SPECIAL MESSAGE SECTION

THE HAZARDS LISTED ON THIS MSDS ARE TAKEN FROM THE MSDS FOR EACH OF THE INGREDIENTS IN THIS MIXTURE. IN MOST CASES, THE MAXIMUM FORM OF HAZARD IS REPRESENTED HERE. THE TLV'S REPRESENT THE CONDITIONS UNDER WHICH IT IS BELIEVED THAT NEARLY ALL WORKERS MAY BE REPEATEDLY EXPOSED DAY AFTER DAY WITHOUT ADVERSE EFFECT. IT MUST BE REMEMBERED THAT EACH INDIVIDUAL REACTS DIFFERENTLY AND SOME MAY EXPERIENCE DISCOMFORT WHILE OTHERS DO NOT. THIS MSDS IS PRESENTED SO THAT EACH INDIVIDUAL WILL HAVE THE INFORMATION TO DEAL SAFELY WITH THE USE OF THIS PRODUCT. ALL MATERIALS TSCA LISTED.

DISCLAIMER SECTION

DISCLAIMER OF LIABILITY:

AS THE CONDITIONS OR METHODS OF USE ARE BEYOND OUR CONTROL, WE DO NOT ASSUME A RESPONSIBILITY AND EXPRESSLY DISCLAIM ALL LIABILITY FOR ANY USE OF THIS MATERIAL. INFORMATION CONTAINED HEREIN IS GIVEN IN GOOD FAITH AND BELIEVED TO BE TRUE AND ACCURATE. BUT ALL STATEMENTS OR SUGGESTIONS ARE MADE WITHOUT ANY WARRANTY, EXPRESSED OR IMPLIED, REGARDING THE ACCURACY OF THE INFORMATION, THE HAZARDS CONNECTED WITH THE USE OF THE MATERIAL OR RESULTS TO BE OBTAINED FROM THE USE THEREOF. INFORMATION ON MSDS SUPPLIED BY INK MFG.